

## **Cancer cell adaptation to hypoxia involves a HIF-GPRC5A-YAP axis**

Alexander Greenhough, Clare Bagley, Kate J. Heesom, David B. Gurevich, David Gay, Mark Bond, Tracey J. Collard, Chris Paraskeva, Paul Martin, Owen J. Sansom, Karim Malik & Ann C. Williams

## **Appendix**

Appendix Table S1

Appendix Table S2

Appendix Table S3

Appendix Table S4





**Appendix Table S3. List of siRNAs used in this study**

Negative control	ON-TARGETplus Non-targeting siRNA pool	D-001810-10	Dharmacon
HIF-1 $\alpha$ siRNA 1	ON-TARGETplus HIF1A siRNA	J-004018-08	Dharmacon
HIF-1 $\alpha$ siRNA 2	ON-TARGETplus HIF1A siRNA	J-004018-10	Dharmacon
HIF-1 $\beta$	SMARTpool: ON-TARGETplus HIF1B siRNA	L-007207-00	Dharmacon
YAP1 siRNA	SMARTpool: ON-TARGETplus YAP1 siRNA	L-012200-00	
GPRC5A siRNA pool (SP)	SMARTpool: ON-TARGETplus GPRC5A siRNA	L-004576-00	Dharmacon
GPRC5A siRNA 1	ON-TARGETplus GPRC5A siRNA	J-004576-08	Dharmacon
GPRC5A siRNA 2	ON-TARGETplus GPRC5A siRNA	J-004576-07	Dharmacon
GPRC5A siRNA 3	ON-TARGETplus GPRC5A siRNA	J-004576-06	Dharmacon
HIF-2 $\alpha$ siRNA 1	FlexiTube siRNA EPAS1_2	S100380212	Qiagen
HIF-2 $\alpha$ siRNA 2	FlexiTube siRNA EPAS1_4	S100380226	Qiagen
Negative control	Negative control RNA Duplex	1027310	Qiagen

**Appendix Table S4. List of primers used in this study**

cDNA primers		
<b>Human</b>	<b>Fwd primer 5'-3'</b>	<b>Rev primer 5'-3'</b>
GPRC5A	Hs_GPRC5A_2_SG QuantiTect Primer Assay	QT01153488
CYR61	ACCGCTCTGAAGGGATCT	ACTGATGTTACAGTGGGCTG
AREG	GTCGATGATTCACTAGTCAGAGTTGA	TTCAGTTATGCTATAGCATGTACAT
CTGF	CAGCATGGACGTTCGTCTG	AACCACGGTTGGTCCTTGG
BCL2L1	CCCTTCAGAACTTATCTTCTG	TGTAGGAGAGAAAGTCAACC
<b>Mouse</b>	<b>Fwd primer 5'-3'</b>	<b>Rev primer 5'-3'</b>
Gprc5a	Mm_Rai3_1_SG QuantiTect Primer Assay	QT00104832
Car9	GGTTAGAGGATCTATCGACTCCC	GGTGCCTCCATAGCTCAA
Egln3	AGGCAATGGTGGCTTGCTATC	GCGTCCAATTCTTATTCAAGGT
Dll4	TTCCAGGCAACCTCTCCGA	ACTGCCGCTATTCTGTCCC
<b>Zebrafish</b>	<b>Fwd primer 5'-3'</b>	<b>Rev primer 5'-3'</b>
gprc5ba	CAGTCGTGGACAACCAGAG	AGAGCTGCTGCCCCGTGTAT
gprc5bb	GAGAGTCAGGGTACACTGT	GCAGAGCCATTTCAGTAGGC
gprc5c	CCAAGCAGAGGGTACGAGAA	GCCGTTATAGCCGCTGTATG
cahz	TGAAGGAGCCGATCAGTGTT	CCATGCAGCAAGGTGTTCT
p4ha1	CGTGATGCTCAGAGGAAACG	AAACAGGCGGCTTGTCTAC
plod1	ACGAGGTCGTGCTGAAGTTT	TGCAGCCAGTCTCAAATGTC
ef1a	CTTCTCAGGCTGACTGTGC	CCGCTAGCATTACCCCTCC
ChIP primers		
<b>Human</b>	<b>Fwd primer 5'-3'</b>	<b>Rev primer 5'-3'</b>
CA9	TCTCGTTCCAATGCACGTACAGC	AGTGACAGCAGCAGTGCACAGT
GPRC5A	ACCCAAACACTTCCTTGCC	AAGGCTCTGAACAAGGGAGT
GPRC5A 8	GCTGAGCTAACTACGGACCT	AGCCTTCTCTCCATCACTCT
<b>Cloning primers (GPRC5A si1R, AvrII and BsrGI)</b>		
<b>Human</b>	<b>Fwd primer 5'-3'</b>	<b>Rev primer 5'-3'</b>
GPRC5A si1R	AAAACCTAGGATGGCTAACACAGTCCCTGATG	AAAATGTACATTAGCTGCCCTTTCTTACTTCA